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**“जानने का अधिकार, जीने का अधिकार”**

Mazdoor Kisan Shakti Sangathan

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**“पुराने को छोड़ नये के तरफ”**

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 11567-3 (1986): Holes and Slots in Metal Bone Plates,  
Part 3: Corresponding to Screws with Asymmetrical Thread  
and Conical Under-Surfaces [MHD 2: Orthopaedic Instruments,  
Implants and Accessories]

**“ज्ञान से एक नये भारत का निर्माण”**

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**“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”**

Bhartṛhari—Nītiśatakam

“Knowledge is such a treasure which cannot be stolen”





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Indian Standard

## SPECIFICATION FOR HOLES AND SLOTS IN METAL BONE PLATES

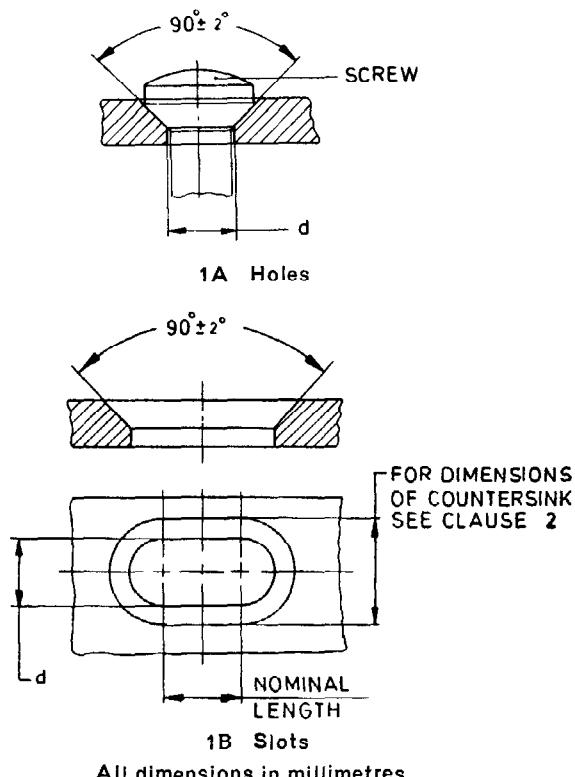
### PART 3 CORRESPONDING TO SCREWS WITH ASYMMETRICAL THREAD AND CONICAL UNDER-SURFACES

**1. Scope** — Specifies dimensions and tolerances of holes and slots in bone plates used as surgical implants to facilitate correct fixing using screws conforming to IS : 9829 (Part 3) - 1986 'Specification for metal bone screws : Part 3 Screws with asymmetrical thread, conical under-surfaces' and IS : 5393-1969 'Specification for screws, bone'.

Note — This part of the standard only deals with the dimensions and tolerances of holes and not with spacing of the holes and dimensions of the plates.

#### 2. Dimensions and Tolerances

**2.1** Holes and slots in plates for 4.0 mm screws and 4.5 mm screws (code numbers HD 4.0 and HD 4.5 respectively according to IS : 9829 (Part 3) - 1986 shall be in accordance with Fig. 1.



All dimensions in millimetres.

$d$	Provided for screws conforming to IS : 9829 (Part 3) and IS : 5393	
	Code Number	Nominal Diameter
+0.1 0		
4.4	HD 4.0	4.0
5.0	HD 4.5	4.5

FIG. 1 DIMENSIONS OF HOLES AND SLOTS

**2.2** The depth of the countersink for holes or slots in flat plates having a thickness of 2·8 mm or greater shall be such that at least half of the parallel depth of the head of the 4·0 mm screw shall be below the external surface of the plate.

**2.3** The depth of the countersink for holes or slots in flat plates having a thickness of 2·5 mm, 2·2 mm or 2·0 mm shall be such as just to accommodate the countersunk surface of the screw head.

**2.4** For bone plates having a curved surface, the depth of the countersink for holes or slots shall be such that the land of the 4·0 mm screw lies between the upper and lower countersunk surfaces of the plate.

### **3. Workmanship and Finish**

**3.1** The holes shall be well formed and clean.

**3.2** The holes shall be free from surface defects such as pit-holes, cracks, burrs, and impregnated foreign particles, etc.

### **EXPLANATORY NOTE**

In the preparation of this standard, considerable assistance has been derived from ISO/DIS 5836/3 Implants for surgery — Metal Bone Plates—Part 3 : Holes and slots corresponding to screws with asymmetrical thread and conical under-surfaces, issued by the International Organization for Standardization.